

## **ABSTRACT OF THE DISCLOSURE**

An encoding and decoding method of record medium having the concept of type and set is disclosed. The disclosed not only satisfy the DK-Constraint, the coding rate and DC-free control are better through the auxiliary conditions of type dependency and digital  
5 sum value. The available storage space of the record medium consequently increases. In the decoding procedures, the accuracy and efficiency are better through the auxiliary conditions of type dependency and forbidden type set. Thus, the decoding error consequently decreases.